

PROFILE OF ALZHEIMER'S DISEASE AND OTHER DEMENTIAS IN SAN DIEGO COUNTY



TOP TEN LEADING CAUSES OF DEATH, SAN DIEGO COUNTY, 2005-2012 Top Ten Leading Causes of Death Among San Diego County Residents, 2005-2012 2005 2006 2007 2011 2012 Cerebrovascular Alzheimer's disease Alzheimer's disease Alzheimer's disease Alzheimer's disease Alzheimer's disease Cerebrovascula Cerebrovascular diseases diseases diseases 1221 1218 1147 1122 1142 1115 1195 1163 Chronic lower Chronic lower Chronic lower Chronic lower Cerebrovascula Cerebrovascula respiratory diseases respiratory diseases diseases diseases respiratory diseases respiratory diseases respiratory diseases respiratory diseases 1128 1046 1023 1121 1080 1063 1045 1029 Chronic lower Chronic lower respiratory diseases espiratory diseases diseases diseases 1044 952 1037 1031 1003 Accidents Accidents Accidents Accidents Accidents unintentional injuries (unintentional injuries tentional injuries) nintentional injuries intentional injuries ntentional injuries (unintentional iniu ntentional injuries 924 949 923 1017 Influenza and Influenza and abetes me pneumonia pneumonia 612 Intentional self harm ntentional self harm ntentional self harm ntentional self harm Intentional self harm tentional self harm (suicide) (suicide) (suicide) (suicide) ntentional self harm ntentional self harm Chronic liver disease Influenza and Chronic liver disease Chronic liver disease Influenza and Chronic liver disease (suicide) 290 and cirrhosis and cirrhosis and cirrhosis and cirrhosis pneumonia pneumonia 297 315 338 322 312 331 354 Influenza and Chronic liver disease ronic liver disease Influenza and Influenza and hypertension and pneumonia and cirrhosis and cirrhosis pneumonia pneumonia hypertension and hypertensive renal hypertensive renal hypertensive renal disease disease 334 338 292 307 19,554 Total Deaths 19,266 Total Deaths 19,157 Total Deaths 19,498 Total Deaths 19,075 Total Deaths 19,312 Total Deaths 19,852 Total Deaths 20,018 Total Deaths Source: California Department of Public Health, Center for Health Statistics, Office of Health Information and Research, Death Statistical Master Files; SANDAG January 1 population estimates (2001-2013 estimate released January 2014). County of San Diego,

In 2008, Alzheimer's Disease went from the fifth leading cause of death to the third leading cause of death among San Diego County residents.

ALZHEIMER'S DISEASE





IN 2012, ALZHEIMER'S DISEASE WAS THE THIRD LEADING CAUSE OF MORTALITY IN SAN DIEGO COUNTY.

Nationally, in 2011, Alzheimer's Disease was ranked as the sixth leading cause of death¹.

The risk of Alzheimer's Disease increases with age.

- San Diego County residents aged 85 years and over is the fastest growing age group².
- 33% to 43% of those aged 85 years and over live with Alzheimer's Disease^{3,4}.

In 2012, there were 59,843 San Diego County residents age 85 years and over. By 2030, this population is estimated to increase by 40.4% to 84,048.

DEFINITION OF ALZHEIMER'S DISEASE AND OTHER DEMENTIAS



EXPANDED DEFINITION OF ALZHEIMER'S DISEASE TO INCLUDE OTHER DEMENTIAS.

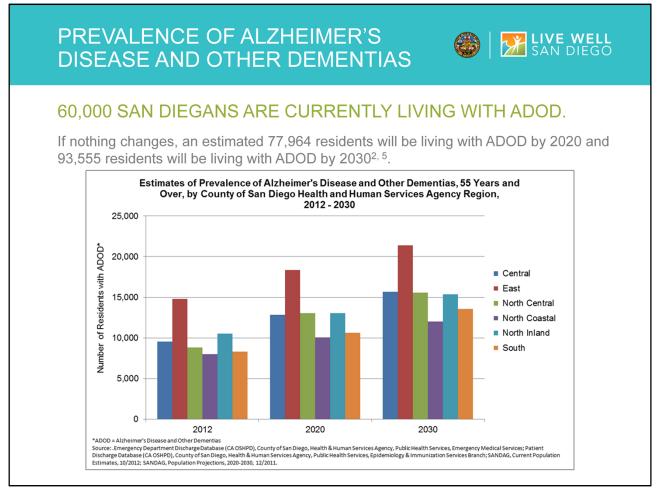
Alzheimer's Disease is the most common form of dementia, but all dementias are characterized by:

- a decline in thinking skills
- memory loss
- reduced ability to perform everyday activities³

All people suffering from dementia need access to resources such as caregivers and health care professionals trained in the treatment of dementia.

Thus, the definition of Alzheimer's Disease was expanded to include Other Dementias as well (referred to as ADOD).

The definition of Alzheimer's Disease and Other Dementias includes major causes of dementia such as Alzheimer's Disease, Frontotemporal Dementia, and Vascular Dementia. Other forms of dementia includes senility and Mild Cognitive Impairment.



There are instances of people under age 55 living with Alzheimer's Disease and Other Dementias (ADOD), however, the vast majority of ADOD cases are seen in the 55 years and over population. In order to generate reliable estimates of the prevalence of ADOD in 2012, 2020, and 2030, only the 55 years and over population was used.

MEDICAL ENCOUNTER DATA





IN 2012 THERE WERE 19,444 SAN DIEGANS AGE 55 YEARS AND OVER WITH ANY MENTION OF ADOD IN THEIR EMERGENCY DEPARTMENT OR HOSPITAL DISCHARGE^{A, 6, 7}.

- The most emergency department (ED) discharges by one person with any mention of ADOD was 42⁶.
- The most hospital discharges by one person with any mention of ADOD was 127.
- The three San Diego County subregional areas (SRAs) that had the highest number of people discharged were Chula Vista, Escondido, and Kearny Mesa^{6, 7}.

In 2012, the rate of persons aged 55 years and over discharged from the ED or hospital with any mention of ADOD was 2.7%⁵⁻⁷.

 The three SRAs that had the largest risk per person were La Mesa, National City, and Chula Vista⁵⁻⁷.

A. It is not possible to identify unique individuals who were discharged from the emergency department (ED) and the hospital in the same year. Therefore, anyone discharged from both the ED and hospital in 2012 would be counted more than once. If a patient is admitted to the hospital from the ED and then discharged from the hospital, they are only included in the hospital discharges.

The number of people discharged from the ED or hospital with a mention of Alzheimer's Disease or Other Dementia (ADOD) reflects the burden on the healthcare and caregiving system in providing care to these individuals. The subregional areas of San Diego County with the largest ADOD burden were Chula Vista, Escondido, and Kearny Mesa.

The rate of people discharged from the ED or hospital with a mention of ADOD takes into account the size of the 55 years and over population in the area and reflects the risk per person. The subregional areas that had the largest risk per person were La Mesa, National City, and Chula Vista.

MEDICAL ENCOUNTER DATA BY 2030, THE BURDEN ON THE MEDICAL SYSTEM WILL INCREASE BY 61% IF NOTHING CHANGES. If nothing changes, there will be 23,876 emergency department (ED) and hospital patients with any mention of ADOD by 2020 and 31,293 ED and hospital patients with any mention of ADOD by 2030^{2, 5-7}. Number of Emergency Department or Hospital Discharged Patients with Any Mention of Alzheimer's Disease or Other Dementias, 55 Years and Over, by County of San Diego Health and Human Services Agency Region, , 2012 - 2030 7,000 Mention of ADOD* 6,000 5,000 with Any Central 4,000 ■ East Number of Dischared Patients North Central 3,000 ■ North Coastal North Inland 2.000 South 1.000 2012 2020 2030 *ADOD = Alzheimer's Disease and Other Dementias Source: Emergency Department Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Public Health Services, Emergency Medical Services; Patient Discharge Database (CA OSHPD), County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology & Immunization Services Branch; SANDAG, Current Populat Estimates, 10/2012; SANDAG, Population Projections, 2020-2030, 12/2011,

It is estimated that by 2020 there will be 23,876 patients with a mention of Alzheimer's Disease or Other Dementias in their medical record. This number is then expected to increase to 31,293 patients by 2030. This is an increase of 61% from the 19,444 patients seen in 2012. These estimates are based on population growth and medical encounter data for patients with any mention of Alzheimer's Disease and Other Dementias from 2012.

COUNTY OF SAN DIEGO PROGRAMS





IN ADDITION TO EMERGENCY DEPARTMENT AND HOSPITAL VISITS, PATIENTS WITH ADOD USE COUNTY OF SAN DIEGO PROGRAMS.

Currently, 39 of the 100 Public Guardian clients have Alzheimer's Disease or Other Dementias⁸.

In 2012, there were 262 mentions of Alzheimer's Disease or Other Dementias among 232 individual clients 55 years and over utilizing County of San Diego Behavioral Health Services programs⁹.

CAREGIVING FOR PEOPLE WITH ALZHEIMER'S DISEASE AND OTHER DEMENTIAS





THERE ARE 136,800 UNPAID CAREGIVERS PROVIDING CARE TO SAN DIEGANS CURRENTLY LIVING WITH ADOD.

In 2013, caregivers in San Diego County provided 156 million hours of unpaid care, valued at \$1.94 billion^{2, 3}.

Caregivers experience emotional stress, depression, and a difficult time managing their own health. In San Diego County, the health care costs to caregivers were \$75.4 million^{2, 3}.

If nothing else changes, by 2030 there will be 93,600 people aged 55 years and over with ADOD in San Diego County^{2, 6, 7}. This will require:

- 213,325 unpaid caregivers^{2, 3}.
- 242.8 million hours of unpaid care worth \$3.02 billion^{2, 3}.

The health care costs of unpaid caregivers will increase to \$117.6 million a year^{2, 3}.

Caregivers are essential to the health and well-being of people living with Alzheimer's Disease and Other Dementias (ADOD). They provider resources such as meals, transportation, coordination of care from healthcare providers, companionship, and help with activities of daily living. However, the health and well-being of caregivers is often overlooked despite the important and necessary role they play. Caregivers often experience higher rates of emotional and physical stress which in turn leads to larger health care costs.

If no changes are made to the caregiving system by 2030, the demand will increase to 213,325 unpaid caregivers for 93,600 people age 55 years and over with ADOD in San Diego County. This will add up to 242.8 million hours of unpaid care worth \$3.02 billion in 2030.

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REFERENCES





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